

Medical Safety Information

Pharmaceuticals and Medical Devices Agency https://www.pmda.go.jp/english/safety/info-services/safety-information/0001.html

Mechanism of production of bradykinin by a negatively charged blood purifier (negatively charged surface)



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Examples of blood purifiers contraindicated in patients receiving ACE inhibitors (as of December 31, 2023)

Brand name (Japanese Medical Device Nomenclature)	Materials	Marketing authorization holder
H12 Hemodialyzer (parallel-plate dialyser)	Polyacrylonitrile membrane (Acrylonitrile-sodium methallylsulfonate copolymer membrane (AN69 membrane))	Baxter Limited
Immusorba (Selective plasma component adsorber)	Phenylalanine immobilized polyvinylalcohol gel	Asahi Kasei Medical Co., Ltd
Immusorba TR (Selective plasma component adsorber)	Tryptophan immobilized polyvinylalcohol gel	
Selesorb (Adsorption plasma perfusion column)	Dextran sulfate immobilized cellulose gel	Kaneka Corporation
Liposorber (Adsorption plasma perfusion column)		
Liposorber LA-15 (Adsorption plasma perfusion column)		
Rheocarna (Adsorption hemoperfusion column)	Dextran sulfate and L-tryptophan immobilized cellulose beads	

Examples of ACE inhibitors

Nonproprietary name		
Alacepril	Imidapril hydrochloride	Enalapril maleate
Captopril	Quinapril hydrochloride	Temocapril hydrochloride
Delapril hydrochloride	Trandolapril	Benazepril hydrochloride
Perindopril erbumine	Lisinopril	Cilazapril

*Described based on the Administrative Notice dated June 15, 2005 "Revision of Precautions."



The package inserts of the above blood purifiers and ACE inhibitors state that concomitant use of blood purification therapy using the above materials and ACE inhibitors is contraindicated because it may cause shock. The above descriptions provide examples; therefore, pay attention to the latest information! Medical Safety Information Pharmaceuticals and Medical Devices Agency https://www.pmda.go.jp/english/safety/info-services/safety-information/0001.html

when blood purification therapy is performed



promoting the safe use of pharmaceuticals and medical devices. The information presented here has been compiled, with the assistance of expert advice, from cases collected as Medical Accident Information Reports by the Japan Council for Quality Health Care, and collected as Adverse Drug Reaction and Malfunction Reports under the Act on Securing Quality, Efficacy and Safety of Pharmaceuticals and Medical Devices.

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